

**ABSTRACT OF THE DISCLOSURE:**

A disklike rotor is placed with air gaps between disklike stators. The disklike rotor has a sheet coil attached to its sides, on which are formed the secondary coil pattern of a rotary transformer and a resolver excitation phase pattern. A sheet coil having the secondary coil pattern of the rotary transformer is attached to the stator opposed to the secondary coil pattern on the rotor, while a sheet coil having a resolver detection phase pattern is attached to the stator opposed to the resolver excitation phase pattern on the rotor. This resolver using a sheet coil is inexpensive and small-sized, decreases angular errors, and avoids the decrease in detection voltage. The variation in amplitude of flux linkage can be limited if there is misalignment of a sheet coil.